Model : DGHDP3

DigiSender® *HDPRO3*

1080P Powerline AV Sender System

Please keep this instruction manual for the future reference.

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SAFETY WARNINGS

These safety warnings are provided to ensure the best user experience with the least inconvenience. Please read this user manual completely before installation and operation. It is advised that you keep the original packaging and protective material in case you need to safely transport the equipment in the future (e.g. for repair).

Maintain at least 2 cm around these devices during operation to ensure heat is properly dissipated; this will maintain and prolong the life of the product.

【WARNING】

- **Do not use these devices outdoors or in environments where the devices can be exposed to water and moisture (e.g. bathtubs, basins, water tanks, wet basements, swimming pools etc.). This warning is to prevent fire and electrical shock**
-

  To further prevent electrical shock, do not, in any circumstance, open the cases. Only trained technicians are certified to repair these devices. If your device needs repair, please contact your dealer.
- **Do not place containers holding liquid (e.g. flower vases, coffee mugs etc.) or material soaked with moisture (e.g. paper, cloth etc.) on the top of or in the vicinity of this product. Always leave 2 cm of open space around the periphery of the case and on top of the case.**
- **Do not block the air vents on the cases. Also, do not place this device on soft surfaces (e.g. sofas) where the product might sink into the surface. Also, do not place devices on carpets or rugs where the surrounding material can affect ventilation and heat dissipation.**
- **Do not place these devices on any surface that generates heat such as radiators, electric heaters, fire places etc.**

【SAFETY INSTRUCTION】

- **Read this manual for all safety measures about operations before using this product.**
- **Always keep this manual accessible for reference.**
- **Pay close attention to all warnings and follow all the safety instructions.**
- **Only operate these devices in well ventilated areas (i.e. do not place in closets, cupboards, covered boxes etc.).**

- **Only use a dry cloth to wipe down the case. Do not use liquid cleaners or spray cleaners.**
- **Do not place the devices in areas that are confined in a limited space (e.g. in the middle of a crowded bookshelf).**

【ABOUT the POWER SUPPLY】

- **If you do not expect to use the product for an extended period of time, unplug the device from the power socket. This is a precautionary measure because these products, as long as they are connected to a power socket, will maintain an electrical current even though they are "turned off" (i.e. using the power button). Unplug the power cable from the power socket by pulling from the plug; do not pull on the cable line.**
- **Power Cable Precautions**
  - **Do not wedge or clamp the power line between the case and surrounding items (e.g. walls, furniture, closets etc.).**
  - **Do not place things on the power line or drag anything over it.**
  - **If the power line is damaged, replace it immediately to prevent electrical shock and fire.**

【ABOUT the HDMI CONNECTOR】

- **Improper use of the HDMI socket and connector will cause damage.**
  - **Before plugging in the HDMI cable into the HDMI socket, carefully check the orientation and shape of the ends of the socket and connector to make sure you are not inserting the connector upside down. Plug the cable in carefully, making sure the head of the connector aims straight into the socket, without any tilt.**
  - **Remove the HDMI cables whenever you move or transport these devices.**
  - **Hold the HDMI cable line when you plug or unplug the HDMI cable. Do not twist or force the plug into the connector.**

【ABOUT REPAIR】

- **These devices should be disposed of properly according to national, regional recycling regulations.**

- **Components that are consumptive in nature (e.g. battery) are not included in the warranty and will incur a fee when replaced.**

【ABOUT ABNORMAL OPERATIONs】

- **If any smoke or odors emanate from these devices, turn off the device immediately, unplug the power cable from the socket and contact your dealer; if you continue to utilize this product in these conditions, it may cause a fire or damage the product irreparably. Unauthorized repair by uncertified repair facilities is forbidden.**

- **If the device is accidently exposed to water or the case is damaged in any way, turn off the power switch and unplug the power cable. Failure to do so may result in electrical short and fire. If you are uncertain of your situation, please call your dealer immediately.**

- **It will take 30 to 40 seconds to establish a connection between the transmitter and receiver. If there is no video or audio transmitting to the receiver, please refer to the trouble shooting section of this manual. Contact your dealer if you are unable to resolve your problem.**

1. Introduction

The 1080P Powerline AV Sender System DGHDP3 incorporates HDMI™ technology, allowing you to transmit HD Video anywhere in your home using existing Power lines. This avoids the complexities of rewiring your house or buying new Video Equipment (e.g. Video Players) for each viewing room. This system consists of a receiver and a transmitter that deliver H.264 HD video and high quality audio from Blu-ray™ players, Set-Top boxes, and video game consoles (etc.) to compatible HDTV displays located near power outlets. Setup is fast and easy; the Video Player (e.g. Blu-Ray player) is connected to your Transmitter while your HDTV is connected to the Receiver; both Receiver and Transmitter are connected to Power Outlets. HDMI Over PLC also allows you to use IR Remote Controllers to control A/V equipment (stop/start/FF/Rewind etc.) remotely using IR signals. The Transmitter and Receiver also have an additional function of delivering Ethernet data over Power Lines, allowing you to access the Internet from any room.

DGHDP3 Kit Contents

The **DGHDP3** kit contains the equipment below. If any components are missing or damaged, contact your dealer immediately.

Package Contents

A. DGHDP3 Transmitter
B. DGHDP3 Receiver
C. Power Cord (x2)
D. IR Blaster cable
E. Remote Control
F. HDMI Cable (x2) (Optional)

In addition to the kit, a video player (DVD player, satellite receiver, set-top box (STB), Blu-Ray player etc.) and a TV (HDTV or Standard TV) are needed.

Note 1: "TX" and "RX" may be substituted for "Transmitter" and "Receiver" (respectively) throughout this manual.

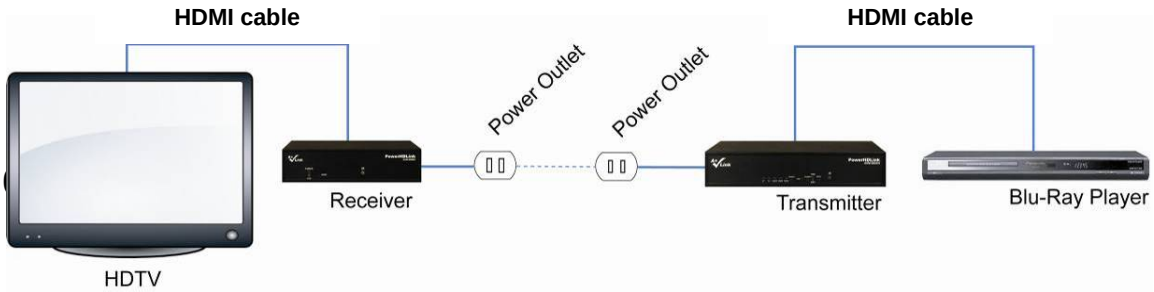
Note 2: Power Cord specifications will vary, depending on country or region.

2. Quick Setup Guide

This chapter describes how to get your DGHDP3 AV Sender System environment quickly installed. After the setup, you will be able to view video that is streaming from a video player on one power outlet to a TV on another power outlet anywhere in your home. For this setup you will also need:

- TV (Standard or HDTV) with HDMI connector
- Video player (e.g. Blu-Ray player, DVD player) with HDMI connector
- Two available power outlets

This guide will use an HDTV and a Blu-Ray player as the video equipment in the examples.



Step 1: Connect the Blu-Ray Player to the Transmitter

Connect your Blu-Ray player to the back panel of the HDMI Over PLC Transmitter through an HDMI cable.

Step 2: Connect the HDTV set to the Receiver

Connect your HDMI Over PLC receiver to the HDTV through an HDMI cable.

Step 3: Power on TV set and Blu-Ray Disc player

Power on your TV set and Blu-Ray Player in any order. Place a Blu-Ray video disc into the player.

Step 4: Connect the power cables to the TX and RX

Connect one end of the TX power cable to the Transmitter. Connect one end of the RX power cable to the Receiver.

Step 5: Connect the Power Cords to Power outlets

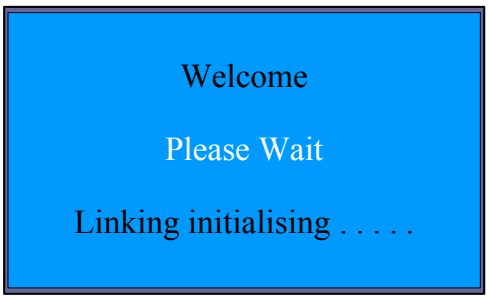
Connect the other end of the TX power cable to an outlet with the appropriate voltage. Also connect the other end of the RX power cable to an outlet.

Step 6: Turn on power switches

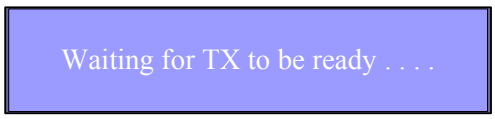
Turn on the Power Switches on the rear panels of both RX and TX. Wait for about 10 seconds.

A red Power Indicator light will illuminate on the front panel of both the Transmitter and Receiver. The Source LED indicator on the TX will show which of the available input connectors is currently in use

Meanwhile, at the TV, you may see a couple of messages display on the TV screen (depending on boot up sequence of equipment). These include a “Welcome” message or “Waiting for TX to be ready” message.



After booting all of your equipment (TV, Blu-Ray, TX and RX), the video transmission from the source Blu-Ray player should begin to display within 40 seconds.



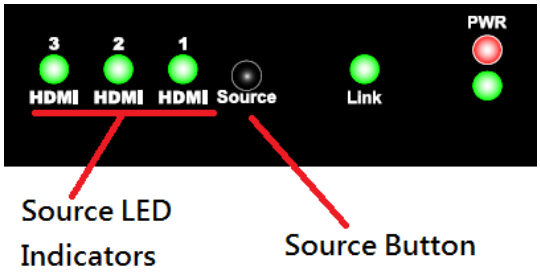
3. Troubleshooting

If no video displays on the remote TV attached to your RX, proceed with the steps below:

Step 1: Check connections, power and equipment

- Make sure all power connections are secure and power is supplied to all equipment.
- Inspect all cables and cable connections between Player-TX and TV-RX.
- Make sure the Video Player is working properly and is transmitting video (hook up a TV directly to the player to confirm). Also, make sure the TV that is attached to the TX is in working order.
- Make sure that the Source LED indicator matches the physical connection between the TX and player that is connected to it. The LED indicators are described in the table below.

1	HDMI connector 1
2	HDMI connector 2
3	HDMI connector 3



e.g. If you attached a Blu-Ray player to your Transmitter using HDMI2, but your Source LED indicator “1” is illuminated (HDMI port1), the transmitter is looking on the wrong input connector. Simply press the Source button (see above) on the TX until the appropriate Source LED indicator illuminates.

If video still does not display, go to Step 2.

Step 2: Pairing procedures for troubleshooting

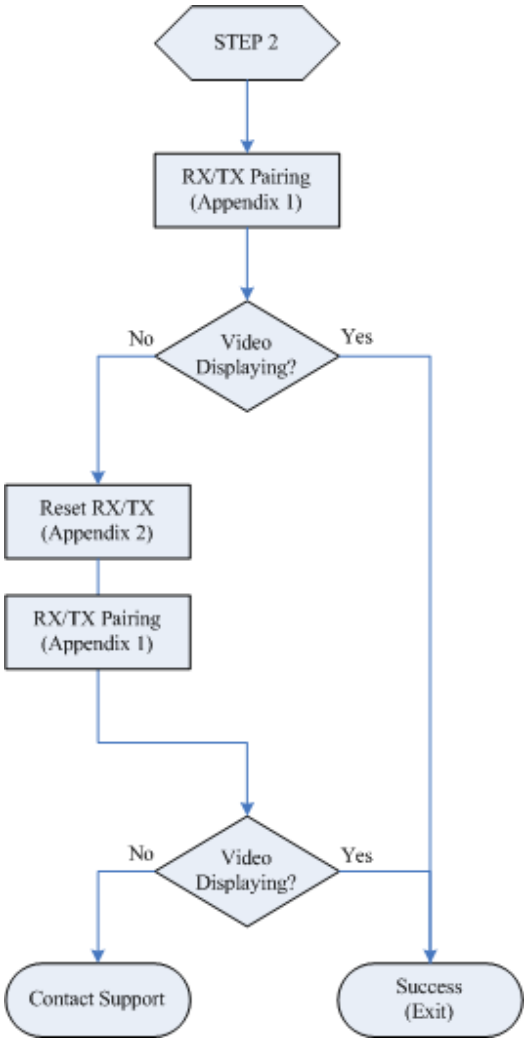
"Pairing" refers to the process where two independent systems (i.e. RX and TX) identify themselves and establish/re-establish the link over the powerline or Ethernet network. You can use these procedures when troubleshooting your system (i.e. Video fails to appear on TV connected to the RX).

The flowchart to the right will instruct you on how to proceed in order. The "Video displaying?" diamond refers to video can be displayed on the TV attached to the RX. The procedures in the boxes are explained in the Appendices as listed below:

- **Appendix 1:** RX/TX Pairing
- **Appendix 2:** Reset RX/TX to System Defaults

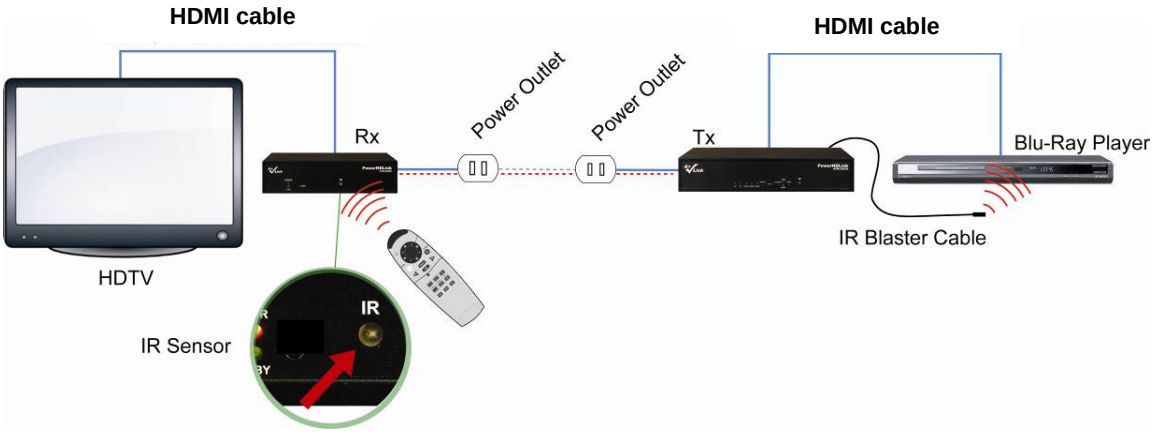
It is assumed that RX, TX and video equipment are all properly connected and powered on.

Note: It is highly recommended that you perform these procedures with the RX and TX in the same vicinity, preferably attached to the same power outlet.



4 Video Source Remote Control

With the DGHDP3 AV Sender System, you can control your video player from the remote location (i.e. where RX is located) using the Video Player's remote controller (must be Infrared Remote Controller). The RX is fitted with an IR sensor that receives the signals and sends them over the power lines to the TX, where the TX re-emits the same IR signals to the video player.



Step 1: Attach IR Blaster Cable to TX

Connect the IR Blaster Cable to the back of the Transmitter (IR Out-1 adapter).

Step 2: Place IR Blaster Tab

Situate the IR Blaster tab in front of the Video Player IR sensor or use the double sided sticker on the tab and stick it onto the Video Player, near the IR sensor.

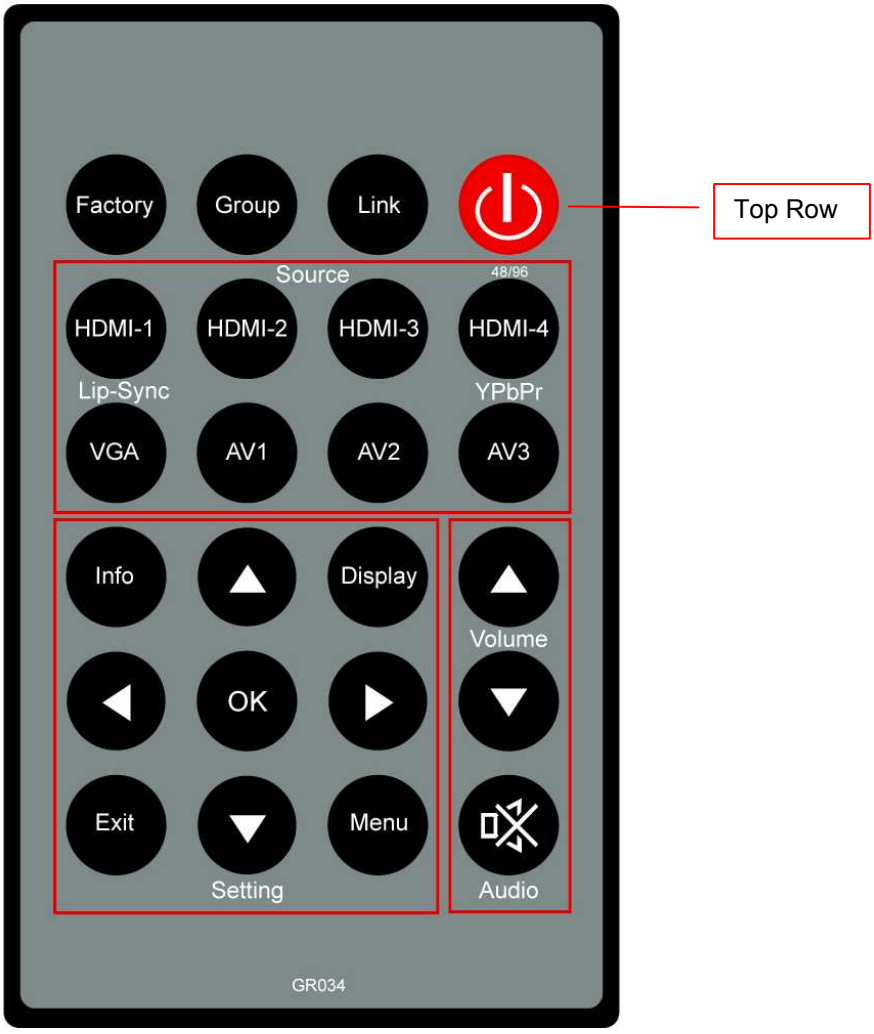
The setup is complete. You can try the remote controller on the Receiver.

5 Remote Controller

The DGHDP3 AV Sender System comes with its own Remote Controller Unit that is designed to control the Transmitter and Receiver. The Remote Controller can manipulate the TX locally or from a remote location (i.e. where receiver is located). The receiver accepts IR signals from the Remote Controller and passes them to the transmitter through the power lines.

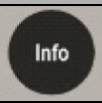
The Remote Controller can also bring up and manipulate the OSD Menu on the TV attached to the RX. It can also adjust the audio volume on the receiver.

The Remote Controller panel is separated into 4 areas (Top Row, Source Area, Setting Area, Volume Area) as shown below:



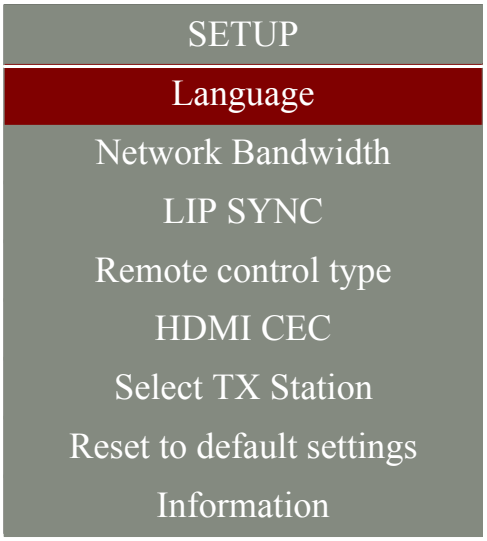
Remote Controller Button Descriptions

Fig	Area	Name	Description
	Top Row	Active/Power Saving	Toggles the states of the TX and RX between Active mode and Power Saving mode. Power Saving mode is the state you can set the TX and RX to when not in use. In Power Saving mode, the RX & TX stop sending video to the TV monitors and then revert to a low-power state. These devices, although in Power Saving mode, can still continue to deliver Ethernet data in the background (see Chapter "Ethernet over PLC Function"). The Power Saving mode for the RX and TX are independent of each other and must be set at their respective locations.
	Top Row	Link	Establishes a PLC connection between the TX/RX and other HomePlug AV PLC.
	Top Row	Group	Use this button if the RX and TX cannot establish a connection (cannot be paired). You also need to use this button when adding an additional RX to your existing RX/TX environment (or group.). This button is also used to allow the RX/TX to reset the system to factory defaults.
	Top Row	Factory	Reserved
	Source	Select HDMI-3	Change current TX input source to HDMI-3
	Source	Select HDMI-2	Change current TX input source to HDMI-2
	Source	Select HDMI-1	Change current TX input source to HDMI-1
	Source	Re-sync audio and video (for RX)	Use this button for audio and video re-synchronization when there is lip-sync issue on the receiver TV.
	Volume	Increase Volume (for RX)	Increase audio volume on the receiver
	Volume	Decrease volume (for RX)	Decrease audio volume on the receiver
	Setting	Display (for RX)	1. When the OSD menu is not displaying, this button is used to toggle the TV system between 59.94 Hz (NTSC) and

Fig	Area	Name	Description
			50 Hz (PAL). 2. When the OSD menu is displaying, this button is used to enable/disable the display of PLC throughput warning message
	Setting	Information (for RX)	Displays OSD information
	Setting	Scroll up (for RX)	Scroll up button on the OSD Menu
	Setting	Scroll down (for RX)	Scroll-down button on the OSD Menu
	Setting	Move left (for RX)	Move-to-left button on the OSD Menu
	Setting	Move right (for RX)	Move-to-right button on the OSD Menu
	Setting	Setting confirmation	This button is like the “Enter” key, used to confirm a setting selection.
	Setting	Menu (for RX)	Bring up OSD Menu on the display that is attached to the RX.
	Setting	OSD Exit (for RX)	Exit OSD Menu
	Volume	Audio Mute(for RX)	Audio Mute on/off on the receiver
	Setting	Force Bandwidth to LOW (for TX)	In case of bandwidth of TX is set too high to transmit the video to RX. Press [Factory] key then [Volume Down] can force the Network Bandwidth to LOW to let TX/RX link together in the poor network environment.
	Setting	Force all TX/RX to be wake up from standby mode	Quickly press the [RIGHT] key to force all TX/RX to wake up if devices are in linked state
	Setting	Force all TX/RX to enter into standby mode	Quickly press the [LEFT] key to force all TX/RX to enter into the standby mode if devices are in linked state P.S. TX source should be turned off first if auto-wakeup function is enabled.

6 OSD Menu

When the system is active, you can press the “Menu” button on the remote controller to bring up the OSD menu on the display attached to the RX. The OSD menu is used to configure various options as described below.



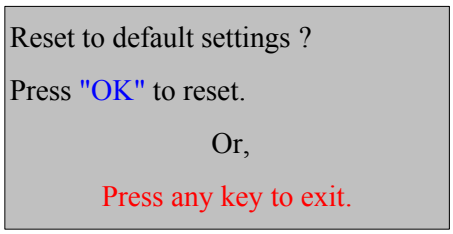
OSD Menu SETUP Items:

- Language
- Network Bandwidth
- LIP SYNC
- Remote control type
- HDMI CEC
- Select TX Station
- Reset to default settings
- Information

Navigating the OSD Menu

You can navigate the OSD Menu using the following keys on the Remote Controller.

- Press the “Exit” button to exit the OSD Menu
- Press [→] or “OK” buttons to select an item on the menu and move on to the next menu item.
- Press [↑] or [↓] buttons to select the optional items.



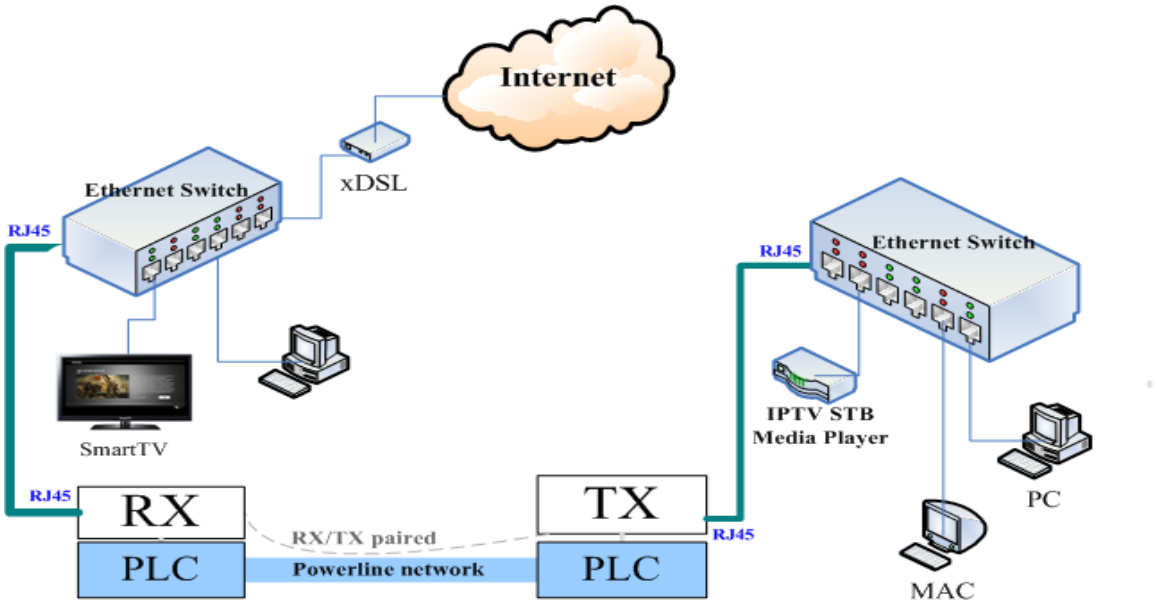
- **Note:** [Reset to default settings] will not reset TX station name and the pairing table. Please refer the Appendix 2 if you want to reset the pairing table.

OSD Menu Descriptions

Menu Item	Description	Options
Language	Selects language for OSD Menu	■ English ■ German ■ Spanish ■ Japanese ■ Italian ■ Traditional Chinese ■ Simplified Chinese ■ French
Network Bandwidth	Choose the option that best matches your Network Bandwidth (Low – Excellent). This product uses your selection to adjust the compression bit rate to optimize the video stream and image quality. If you are unaware of your Network Bandwidth, you can simply choose the Auto Detect option.	■ Auto Detect ■ Low ■ Fair ■ Good ■ Excellent
LIP SYNC	The selections in this option are used as a reference value for the system to adjust audio timing. (only used for 60/59.94 Hz or NTSC video systems and does not apply to 50 Hz or PAL video system)	■ 60 Hz ■ 59.94 Hz
Remote control type	Select supported IR carrier frequency for remote controller, which the user wants to bypass through IR blaster cable.	■ 36/38 KHz ■ 56 KHz
HDMI CEC	This item enables/disables standard or non-standard CEC command.	■ ON ■ OFF(default)
Select TX Station	If there are multiple TX stations, this item allows users to select the TX station to receive video.	■ TX station name is editable. The default names will be numbered 1~4
Reset to default settings	This selection resets all the TX/RX settings to factory default values other than the preset pairing table and TX station name	■ Refer to Appendix 2 to reset all system settings.
Information		Firmware version of TX/RX

7 Ethernet over PLC Function

The “Ethernet over PLC” Function allows you to deliver Ethernet data anywhere in your home over Power Lines. This means that you can access the Internet and browse the web from anywhere, without rewiring your entire home with Ethernet cabling.



Both the RX and TX have LAN connectors on their rear panels. The xDSL modem, PC/NB, Smart TV and RX connect to the Ethernet switch in RX side and the IPTV STB or media player, other PC/NBs and TX connect to another Ethernet switch in a separate location (as shown in the diagram above).

Note: Do not connect the LAN ports between the Receiver and the Transmitter as it will disrupt any video streaming through the products.

8 Adding an Additional RX

You can attach up to 4 RXs to the single TX **depending on your power-line network quality**. Not all power-lines are able to transmit video to multiple RXs. In most of applications, you can only turn on 2 RXs simultaneously.

You must perform the RX-TX pairing procedures each time when you want to add an additional RX to your system. Please refer to Appendix 1 for the detail TX/RX pairing.

9 Running TX as a Standalone Box

You can use the TX in standalone mode without the RX. In other words, you can use the TX, along with the TV and input video devices attached to it, as a standalone system (i.e. Video Switching Box).

If both RX and TX are powered on and working, you can simply turn off the RX and the TX becomes a standalone system.

However, if both TX and RX are initially turned off, turn on your TV and then turn on your TX. After the TX has gone through its initialization process (20~30 seconds), you can press OK button on the remote controller to stop the LED which is trying to link with a RX or wait for LED time out. Also you are allowed to change the input source anytime by pressing the source button on TX (front panel) or remote controller.

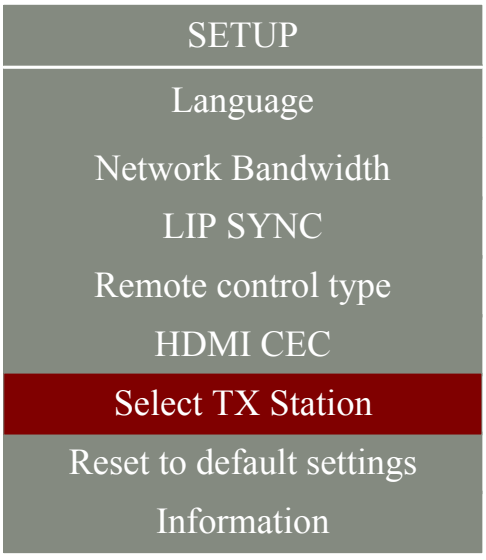
The input Source LEDs will stop blinking if the input a/v source is ready.

10 Running Multiple Transmitters with Multiple Receivers

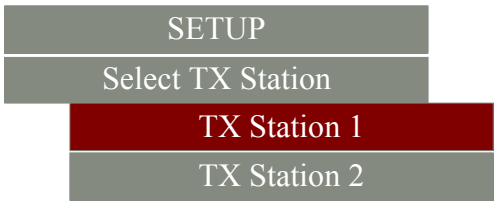
Each receiver (RX) can be paired with a maximum of 4 transmitters (TX) as described in the Chapter “Adding an Additional RX”. Therefore, an HDMI Over PLC receiver can choose from multiple transmitters as the media source. Remote control will also be automatically redirected when changing to a different transmitter.

【Selecting a different TX source for a RX】

1. On the remote control (at the RX), press the “Menu” button to open the OSD menu. Use the up/down buttons to move to the “Select TX Station” item.
2. Press the “OK” button to enter the “Select TX Station” menu.
3. On the “Select TX Station” screen there is a TX stations list. Use the up/down buttons to select the TX Station.

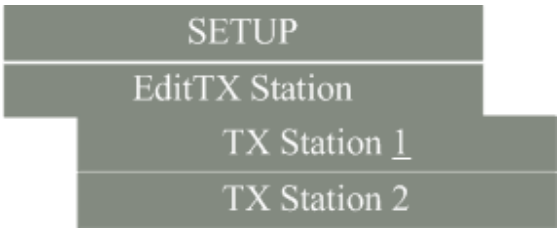


4. Press the “OK” button to confirm the selection.
5. If the selected TX is currently transmitting the video, the video should begin to display.



【Modifying the name of a TX device】

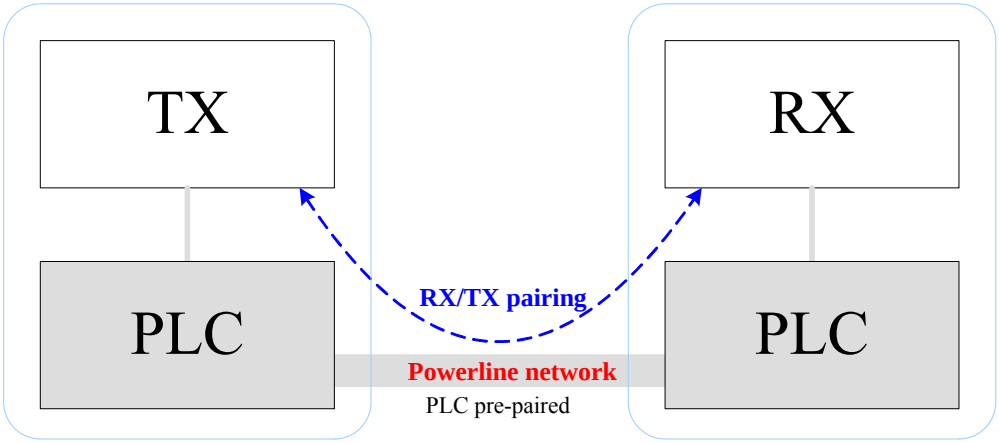
1. On the remote control, press the “Menu” button to open the **OSD** menu and use the up/down buttons to move to the “Select TX Station” item.
2. Press the “OK” button to enter “Select TX Station” menu.
3. Press the up/down buttons and highlight the intended TX.
4. Press the “Menu” button again to edit the name of selected TX. Editing keys are described below：
   - The underline below the TX name implies the current cursor position.
   - Use the and the buttons to select a certain character (alphabet or numeric).
   - Use the button to move back one space, deleting one character.
   - Use the button to confirm the character selection and move to next space.
   - Use the button to finish the editing.



Appendix 1 RX/TX Pairing

These procedures are used when you want to add an additional RX into the environment or re-pairing RX/TX is necessary.

"Pairing" is performed to establish/re-establish a logical connection between the RX and TX.



There are two methods to pair the RX with TX as described below:

a) Press "Group" buttons on the RX and TX rear Panels:

1. Press the Group button on the rear panel of the RX then the "PAIRING" message will display on the TV attached to the RX.
2. Press the Group button on the rear panel of the TX for 1 second at least until the Link and HDMI-1 LEDs begin to alternately "double blink".

b) Press "Group" key on the remote controller

Push the

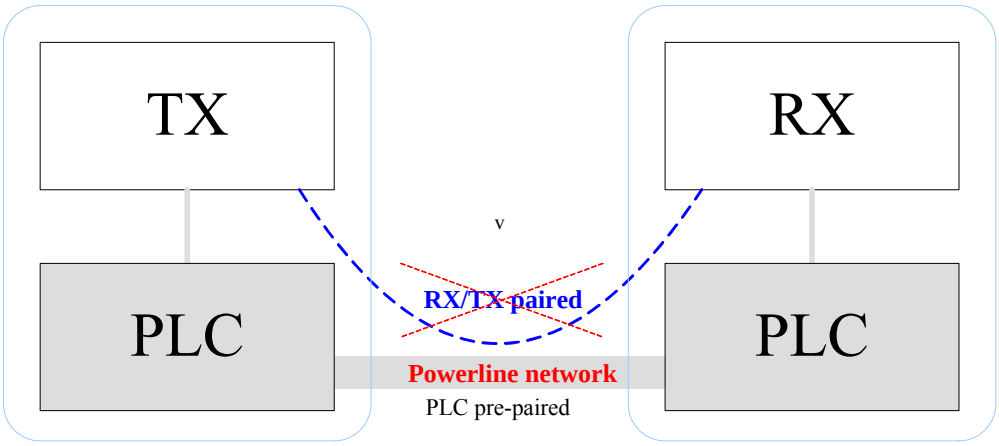
(Group button) on the remote controller to pair the RX and TX.

If the pairing success, the message on the TV screen will change from "PAIRING" to "PAIRED", followed by the video (if video is currently streaming from the source).

NOTE: It is strongly recommended to do the procedures (RX/TX Pairing) with the RX and TX in the same vicinity, preferably on the same power outlet (for testing). The max pairing number for TX/RX is 4. Please refer to the Appendix 2 to reset the pairing table if there's no more space in the pairing table.

Appendix 2 Reset RX/TX to System Defaults

The procedures below set the RX and TX to factory defaults and are used when troubleshooting the system (i.e. Video fails to appear on TV attached to RX).

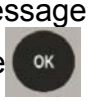


a) At the TX, press the Group Button

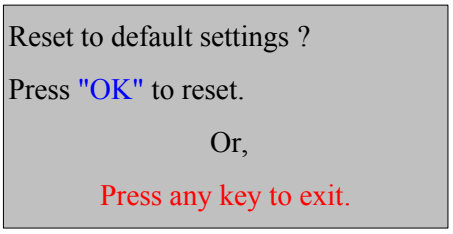
several times (in rapid succession) on the remote controller and **CONTINUE** to do so until all the LEDs on the front panel illuminate; then press the

button (on the remote controller). The LEDs will flash off-on-off-on and TX will reboot automatically. TX will be reset to the factory default settings.

b) At the RX, press the Group Button

on the remote controller **AT LEAST 5 TIMES** (in rapid succession) until the screen message displays on the TV. Then press the 

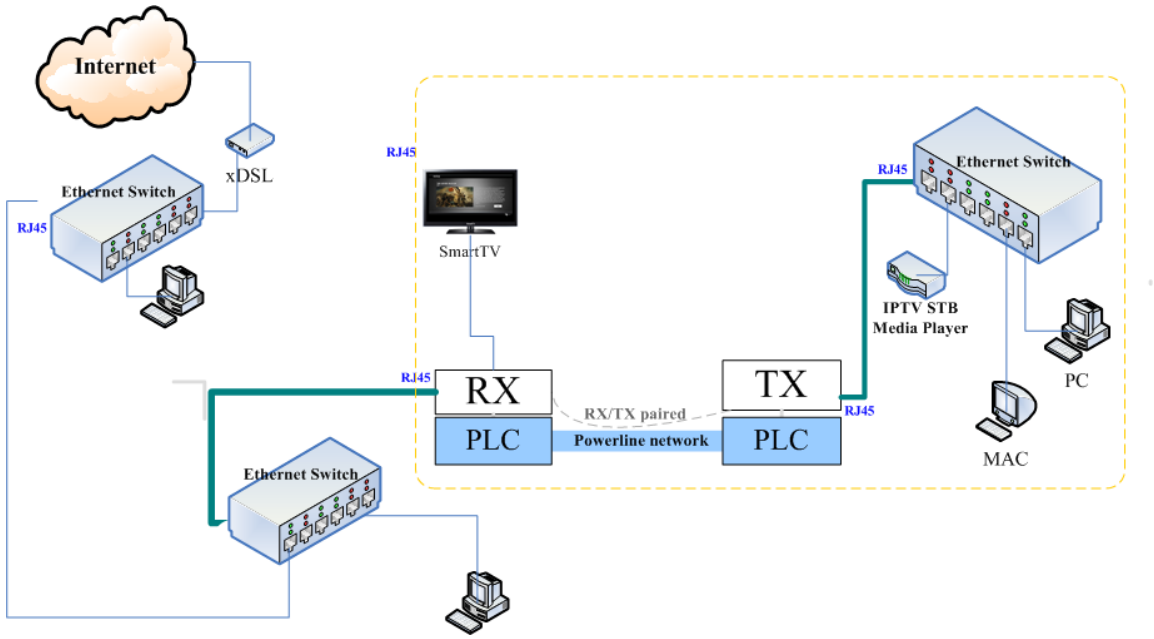
button (on the remote controller) to reset to the factory default settings or any other key to stop the resetting procedure..



Note: If you reset the system to the factory default values according to this Appendix 2, you will need to execute the RX/TX Pairing procedures (Appendix 1) again**.**

Appendix 3 PLC Pairing

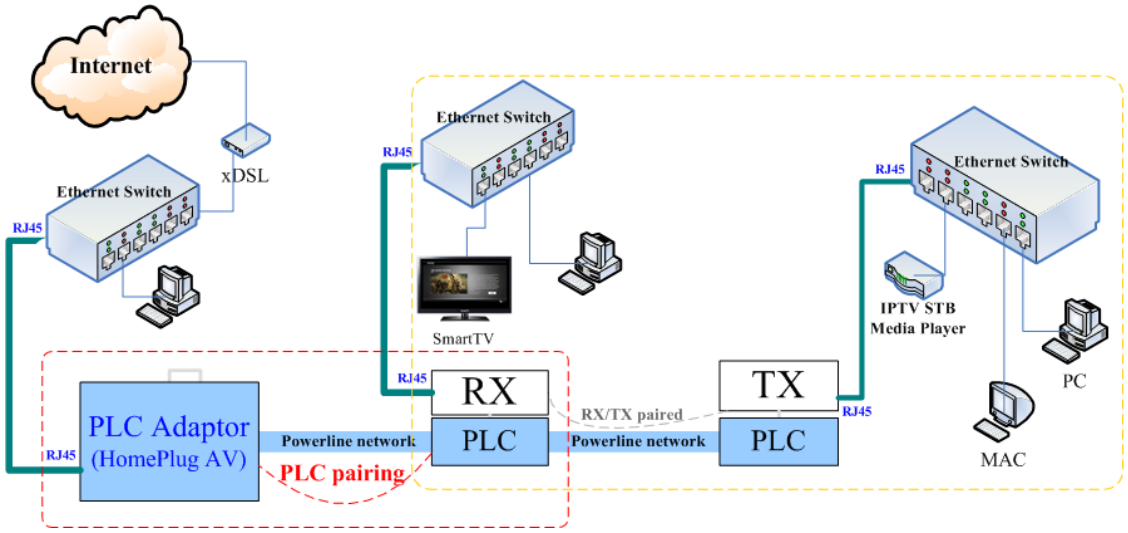
❖ The **paired** PLCs form a logical network when connected to common power-line media. This is pre-paired during manufacturing. It's not necessary to re-pair the PLCs normally.



❖ **Note:** As the above application example, RX is well-paired with TX already when manufacturing. If you would like to take the advantage of Ethernet over PLC bridge function built in the TX and RX, you will need:

1. Prepare a HomePlug AV compatible PLC adaptor device
2. Reset the PLC adaptor to be a joiner (please refer to its user manual or contact its support center)
3. Do PLC pairing between the PLC adaptor and either one of TX and RX

PLC pairing with other PLC adaptors



If you would like to connect the power line network to the legacy power line network(Home Plug AV series), you have to do PLC pairing before you connect it.

❖ **Note:** You can use either TX or RX as an adder to pair with your new PLC adaptor.

If you are using TX as an adder to pair:

a) Press the Link Key on the remote controller at the TX, and press [Group] button on the rear panel of TX within 10 seconds.

b) Press the [Group] button on the PLC adaptor (please refer to your PLC adaptor user manual)

c) The [Link] LEDs on the TX will flash on and off.

Note: TX will do RX/TX pairing automatically after PLC pairing is finished. Please ignore it.

If you are using RX as an adder to pair:

a) Press the Link Key on the remote controller at the RX, and press [Group] button on the rear panel of RX within 10 seconds.

b) Press the [Group] button on the PLC adaptor (please refer to your PLC adaptor user manual)

c) A “Performing PLC Grouping” message will display on the TV at the RX.

Note: RX will do RX/TX pairing automatically after PLC pairing is finished. Please ignore it.

Performing PLC Grouping .....

❖ **Note:** It is strongly recommended to do these procedures (PLC Pairing) with the RX or TX in the same vicinity, preferably on the same power outlet.

Appendix 4 Trouble Shooting Checklist

Trouble Shooting		
Scenario	**Possible Reason**	**Resolution**
TV attached to the RX displays no video images The Source LED flashes if selected source is not ready	● Power is switched "off" at the RX or TX. ● Cable connections are not secure.	■ Make sure the power switches on the back panels of both the TX and RX are turned on. ■ If power switch is turned on at the TX, but the Power LED is off or standby LED (green) is "On", press the "Power" button on the remote controller to turn it on ■ Make sure the power cables and video/audio cables are secured.
	● Input video is not ready. The illuminated Source LED light on the front panel of the TX does not reflect the actual video source connection in back of the TX.	■ Make sure the power cables and video/audio cables are secured and verify that the media source (e.g. player) is working properly by connecting it directly to a TV.. ■ Press the "Source" button on the front panel of the TX until the appropriate Source LED indicator illuminates.
	● Video format is not supported (e.g. 1080@60P/50P).	■ If the media source player can work directly with the TV, it might indicate a problem with the video/audio format. Check Appendix 5 (Video Specifications) to check if the video format delivered by the player is supported by the system (RX/TX).
	● RX/TX are not paired	■ Check if all Source LEDs in the front panel of TX are flashing together or there's "Not Paired" message on RX TV. This means that the RX and TX are not paired properly and require re-pairing. (Appendix 1).
	● Interference from an EMI or electrical surge protection device.	■ If there are electrical surges or an EMI protection circuit inside the power socket, change to the different socket. Also, make sure that you are using all three prongs on the power connector.
Power indicator LED is off.	● The system is in standby mode.	■ Check the standby indicator LED on the front panels of TX. If the standby indicator LED is on, press the power button on the remote controller to wake up the TX ■ Check the Power indicator LED on the front panel of RX. If it is off, press the power button on the remote controller or turn on the power to wake up the RX
Power indicator LED is off	● Power not turned "On" for RX or TX(The mains is	■ Check the power switch on the rear panels of both RX and TX to make

Trouble Shooting		
Scenario	**Possible Reason**	**Resolution**
	cut).	sure both are turned “On”.
	● Power supply short	■ If the suggestions above do not remedy the problem, the power supply in the devices may have a short. Unplug the power cords immediately and contact your dealer.
The Source LED indicators on the front panel of the TX are flashing or TV attached to the RX displays “Not paired, please do pairing”.	● RX and TX are not successfully paired.	■ Try the pairing procedures in Appendix 1. ■ If it does not resolve the problem, refer to Appendix 2 (reset RX/TX) first and then Appendix 1 (system pairing).
TX source LED indicators are flashing from right to left.	● TX and RX connectivity is not established due to bad electrical line quality, not paired properly or RX is not powered on.	■ Make sure the RX is powered on. ■ If the RX is powered on, Try the pairing procedures in Appendix 1 to see if RX/TX can be paired?(refer to chapter 3: troubleshooting)
	● RX and TX are not paired successfully.	■ Check the TV attached to the RX to see if it displays “Not paired, please do pairing “message. If so, pair the TX and RX. (Appendix 1).
The Source LED is always flashing.	● Media source player is not powered on, bad cable or player is in standby mode	■ Check to see if the media source player is normal by connecting to TV directly.
	● Unsupported video/audio format from the media source player	■ Refer to Appendix 5 Video Specifications to check if the output resolution of media source is not supported(max 1920X1080@60i/24P PCM audio).
The selected Source LED is on but the Link LED is not ON	● The distance between TX and RX is too far or the quality of the electrical power line is poor.	■ Try changing to a different socket. ■ Shorten the distance between the RX and TX (i.e. move them to different sockets located closer to each other). ■ If the suggestions above do not resolve the problem, put RX/TX in the same vicinity, preferably on the same power outlet and test again.
	● TX is not working properly.	■ Power off and on the TX device and check again.
	● RX is not working well	■ Power off and on the RX device and check again.
During video playback TV displays “Waiting for TX to be ready.”	● PLC network cannot support enough bandwidth or network quality is not stable, which results in suspension of the video picture.	■ This problem will usually resolve by itself within a minute. ■ If it is a persistent problem, it may be a faulty socket or poor quality of powerline network. Try another socket.

Trouble Shooting		
Scenario	**Possible Reason**	**Resolution**
	● RX is continuously rebooting.	■ If the Power LED indicator keeps turning on and off, the power supply may not stable. Unplug the power cord and contact your dealer.
Message: "unsupported format"	● The resolution of the media source player output is not supported by the TX. The system can only support up to 1920x1080@60i or 1920x1080@24P	■ Media sources may be configured to "auto detect" the format used by the TX; in this case there are usually no problems. However, if the Media source had been manually configured to send a certain format that is not supported by the TX, you will need to reference the Media source manual to reset the format to one supported by the TX (see Appendix 5 – Video Specifications).
TV displays "The device connected to TX is turned off or is not connected, please check. " message	● Indicate the media source (Blue-ray DVD player or media play) is in turn off status or is not connected.	■ Turn on the media source or connect its output to the input of TX.
TX cannot enter into standby mode	● The video source is turned on. If video source device is turned on, TX will not enter into standby mode when you press [Power] key of remote controller.	■ Please turn off the video source device first, then press [Power] key of the remote controller to let TX enter into standby mode.

Appendix 5 TX LED definitions

	State	Power	Link	HDMI - 1	HDMI - 2	HDMI - 3
1	TX Not Paired	PWR PWR	☀	☀	☀	☀
2	Pairing mode	PWR	☀ ☀	☀ ☀	○	○
3	Linking	PWR	☀	(☀ ●)	(☀ ●)	(☀ ●)
4	☑Link, ☒Video	PWR	●	(☀)	(☀)	(☀)
5	☑Link, ☑Video	PWR	●	(●)	(●)	(●)
6	☒Link, ☑Video	PWR	○	(●)	(●)	(●)
7	Standby mode	PWR	○	○	○	○
8	Reset to default	PWR	●	●	●	●

●	Red LED ON	●	Green LED ON
○	Red LED OFF	○	Green LED OFF
☀	Red LED Flash	☀	Green LED Flash

☑ Link ☑ Video	network and video are both ready
☑ Link ☒ Video(after timeout)	network ready, but video not ready
☒ Link ☑ Video(after timeout)	network not ready, but video ready
☒ Link ☒ Video(after timeout)	network and video are both not ready

Appendix 6 System Specifications

Video Specifications:

Interface Resolution	HDMI
1920 x 1080p/24, 23.98	✓
1920 x 1080i/60, 59.94	✓
1920 x 1080i/50	✓
1280 x 720p/60, 59.94	✓
1280 x 720p/50	✓
720 x 576p/50	✓
720 x 480p/60, 59.94	✓
720 x 576i/50	✓
720 x 480i/59.94	✓

Audio Specifications:

Interface	HDMI
Format	PCM
Sampling rate and resolution	44.1/48 kHz,16 bits
Audio channel	2 channel
Connector	HDMI

System Specifications:

Item	Transmitter	Receiver	Note
HDMI Port	Input: 3, Output: 1	1	
PLC Bridge Function	1	1	
IR sensor port	1	2	36/38 kHz / 56 kHz
Remote Controller	1		
IR Blaster port	2		
IR Blaster cable	2		
Ethernet(RJ-45) port	1	1	
AC Power Input	100-240V/50, 60 Hz		0.2A max.
Power Consumption	12W	9W	average
Operation Temperature and Humidity	10~40℃,30~80%RH		
Storage Temperature and Humidity	-20~80℃, 20~90%RH		